OPERATION AND MAINTENANCE MANUAL

ADU-10CF

(NSN: 6520-01-456-7170) Part 1 of 2

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INTRODUCTION

Performance in tandem with portability makes the Aseptico ADU-10CF Command Air Field Dental Unit perfect for the demanding professional. The unit is lightweight and fully integrated into a Mil-Spec carrying case suitable for dental operative procedures under a wide range of field and environmental conditions. This equipment is designed to provide many years of reliable service, while requiring a minimum amount of maintenance. Please read the instructions provided in this manual to receive the best and longest service from your Aseptico equipment. Separate manuals may be included in the instruction packet to cover the operation and maintenance of options and/or accessories included with this unit.

DESCRIPTION

The ADU-10CF self-contained dental unit is designed for field use. Attaching the unit to a compressed air source, such as the AA-75CF, at 70-100 psi is the only connection required for primary operation. A fiber optic handpiece lighting system is included, and requires 120v 50/60Hz for operation.

The ADU-10CF Command Air Field Dental Unit features one autoclavable three-way syringe, manual selection for two handpieces with air and water coolant, variable-speed disc foot control, one HVE and one saliva ejector evacuator, a self-contained water system, one stainless steel instrument tray, and a KaVo handpiece fiber optic lighting system.

This unit is integrated into a Mil-Spec carrying case. Assembly and repacking is simple and requires no special tools.

PACKAGE CONTENTS

- ADU-10CF Unit
- HVE Vacuum Hose
- Saliva Ejector Vacuum Hose
- Fiber Optic Transformer
- KaVo 465 LRN MultiFlex Coupler
- 10' Air Supply Line, 2ea.
- Storage Pouches
- Operators & Service Manuals
- Swivel Instrument Tray Assembly

SET-UP

1. Unpack the ADU-10CF Unit from all external packaging. With the large side of the case down, unlock all perimeter latches and open the lid. The large side of the case contains the vacuum and water systems and acts as the base of the unit. The small side of the unit contains the delivery head controls and should hinge upward.

2. Remove the instrument tray and swivel bracket assembly from the case. Attach the swivel bracket onto the bottom of the instrument tray, rotate to the extended position and secure with the thumbnut (*see fig. 1*). Pinch tray and bracket assembly between case lid and base for mounting *(Fig. 2)*.

3. Lock the hinged lid open by attaching the Quick-Grip clamp to the case as shown in *Figure 3*.

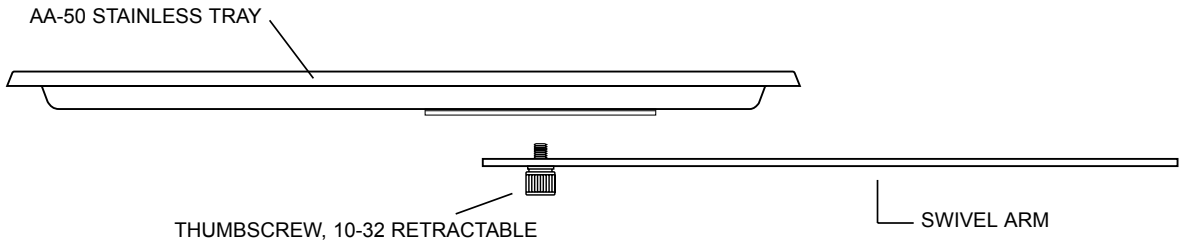


Figure 1 - AA-50 Stainless Steel Tray Assembly

4. Remove stainless steel water supply bottle from storage and install on quick disconnect below water switch.

5. Remove the high and low volume vacuum hose assemblies from their labeled storage pouch and install the HVE hose assembly into the quick disconnect on the lid of the large 1000ml HVE waste reservoir, and the Saliva Ejector hose assembly into the quick disconnect on the lid of the small 1pint Saliva Ejector reservoir. Hang vacuum valves in holders on delivery head. *Figure 2*

6. Remove air water syringe and handpiece tubings from their labeled storage pouch and hang in the appropriate holders on the delivery head. Remove disc foot control from the same pouch and place on the floor. *Figure 3*

7. Remove the air supply line from its labeled storage pouch and attach to the unit first, and then the compressed air source. The air supply line is furnished in two 10 ft. sections with quick disconnects. Assemble as shown in *Figure 3*.

8. Set-up is now complete. With the compressor on, switch the master ON/OFF toggle to the “ON” position to pressurize the system and begin operation.

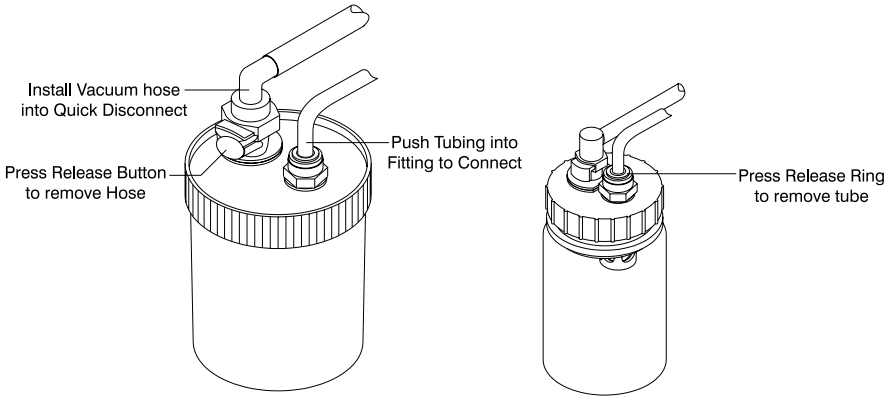


Figure 2 - HVE & Saliva Ejector Waste Reservoirs

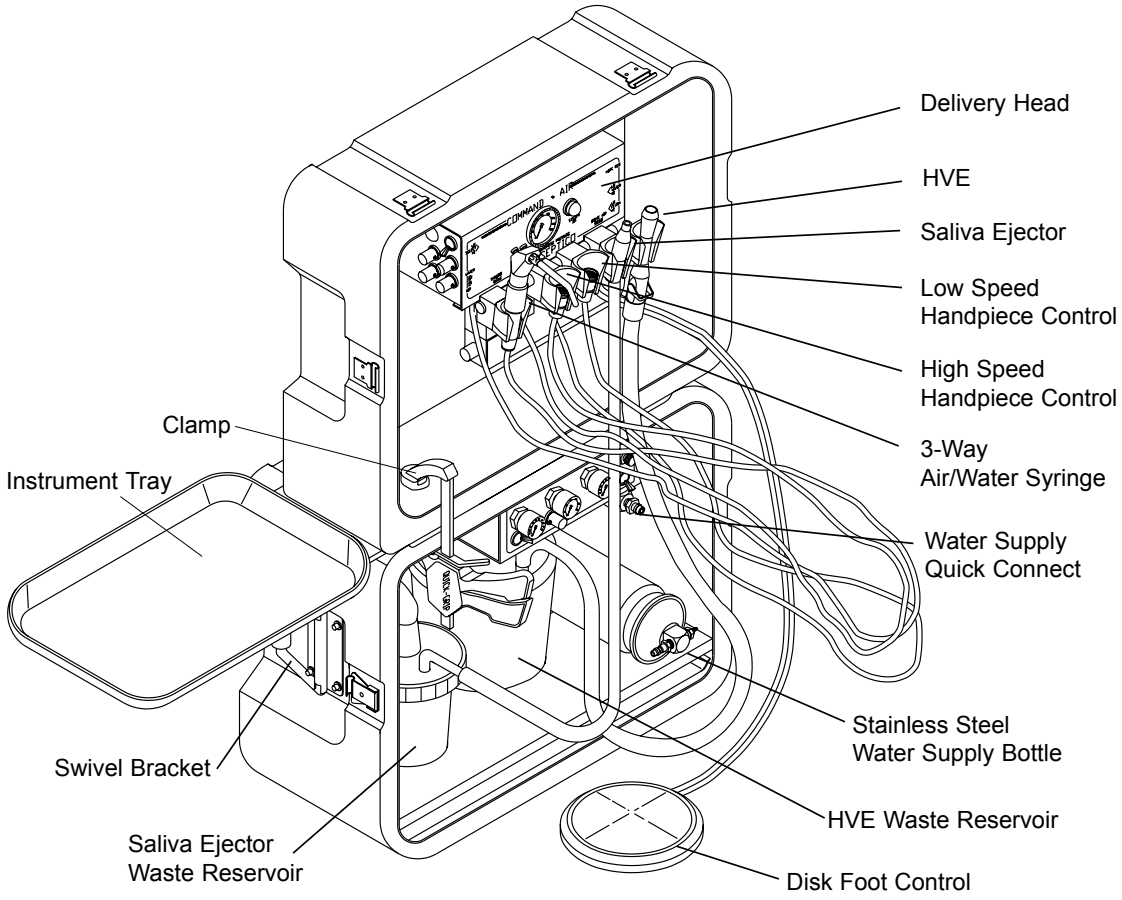


Figure 3 - ADU-10CF Component Locator

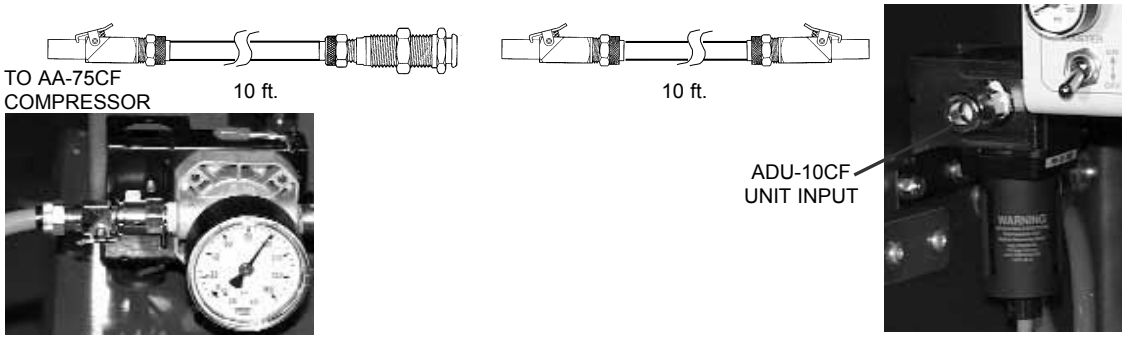


Figure 4 - Air Supply Line Connection

OPERATION

About The Control

The ADU-10CF Command Air Field Dental Unit is built around a rugged manual control handpiece system for two handpieces, an autoclavable three-way air/water syringe, a self contained water supply, and both high and low volume evacuators. The unit is equipped with a built in fiber optic light source for one or both handpieces.

Handpiece selection is manual. The handpiece selector switch activates high or low speed handpieces, allowing them to start up when the foot control is activated. The water coolant flow, air coolant flow, and the maximum dynamic drive air pressure are individually adjustable for each handpiece. A water coolant toggle allows the operator to turn off the water coolant to the handpieces, and the air coolant flow control knobs allow adjustment of the air coolant for each handpiece.

The venturi type oral evacuation system consists of a high volume evacuator and a saliva ejector with separate self contained waste reservoirs. Oral evacuator selection is automatic, allowing them to operate when lifted from their holder. Both the high volume evacuator and saliva ejector are individually adjustable to control the vacuum generated.

All handpiece controls are located on the delivery head, mounted in the top side of the case. The master On/Off switch and all vacuum and water controls are located on the vacuum control panel mounted in the lower side of the case. Each control is labeled, and pressure gauges are provided to set and monitor functions while in use.

Handpiece Controls *Figure 5*

HANDPIECE SELECTOR SWITCH

Selects the desired handpiece, highspeed or lowspeed, for operation.

WATER COOLANT FLOW CONTROL

Adjusts the water coolant flow to the handpieces. A water coolant control knob is provided for each handpiece. Turn clockwise to decrease flow, and counter-clockwise to increase flow.

AIR COOLANT FLOW CONTROL

Adjusts the air coolant flow to handpieces. If turned fully clockwise, it completely shuts off the air coolant. An air coolant control knob is provided for each handpiece.

HANDPIECE REGULATOR
The handpiece regulator controls the air pressure to the delivery head for handpieces. Turn clockwise to increase pressure, and counter-clockwise to decrease pressure.

FLUSH TOGGLE
Allows the operator to flush the water coolant line without stepping on the foot control. Hold the handpieces over a basin. Flip flush toggle and hold about 5 seconds. Water flows only as long as you hold the flush toggle on.

DRIVE AIR PRESSURE CONTROLS
Adjusts the drive air pressure to each handpiece. An adjustment screw is provided beneath the delivery head for each handpiece. Turn screws clockwise to decrease pressure and counter-clockwise to increase pressure.

SYRINGE PRESSURE CONTROL
Adjusts the air and water pressure to the three-way syringe. An adjustment screw is provided beneath the delivery head for the air and water. Turn screws clockwise to decrease pressure and counter-clockwise to increase pressure.

WATER COOLANT ON/OFF
The control is equipped with a Wet/Dry Toggle to activate the water coolant flow. Move the toggle up to turn water coolant on.

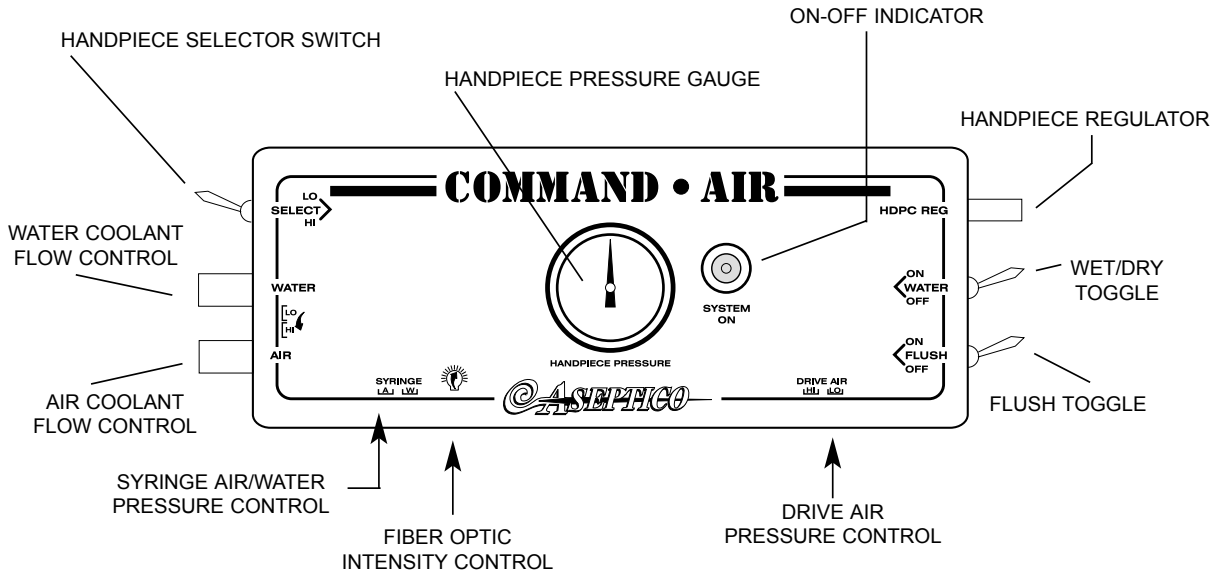


Figure 5
Handpiece Controls

HANDPIECE PRESSURE GAUGE
Gives a visual indication of the drive air pressure to the handpieces.

On-Off INDICATOR
Provides a visual indicator that the unit is pressurized when the master on-off toggle is turned on.

FIBER OPTIC INTENSITY CONTROL
A remote intensity control knob is mounted beneath the delivery head for the fiber optic handpiece lighting. Increase the light by turning the control knob clockwise.

Vacuum and Water System Control *Figure 6*

The vacuum system is equipped with automatic shut-off holders. Lift the vacuum hose(s) from their holder for use. When the vacuum system is not in use, the lock-out toggle on the auto holder should be turned off immediately, or the vacuum valves placed back into their auto holders to reduce the compressed air consumption from the air compressor. The vacuum waste containers each have a float shut-off to prevent waste over-flow.

The self-contained water system mounts to the quick-disconnect on the vacuum/water control. Twist to remove lid from tank for filling. When refilling tank, always turn water system toggle off, allowing pressure to escape before separating lid from tank.

MASTER On-Off TOGGLE
Turns on air pressure to the control systems. When turned on, the master gauge will indicate system pressure. This toggle should be turned off whenever the unit is not in use.

MASTER PRESSURE GAUGE
Gives a visual indication of the overall system pressure. System pressure should always maintain a minimum of 65 PSI while unit is in operation.

SALIVA EJECTOR CONTROL
Adjusts the amount of vacuum generated to the saliva ejector. Turned fully clockwise, it completely shuts off the saliva ejector.

SALIVA EJECTOR GAUGE
Gives a visual indication of the venturi air pressure generating vacuum to the saliva ejector.

HIGH VOLUME EVACUATOR(HVE) REGULATOR
Adjusts the amount of vacuum generated to the high volume evacuator. Turn clockwise to increase HVE vacuum, and counterclockwise to decrease HVE vacuum. Pull knob down to unlock, or press in to lock regulator.

HIGH VOLUME EVACUATOR(HVE) GAUGE
Gives a visual indication of the venturi air pressure generating vacuum to the HVE.

WATER SYSTEM On-Off TOGGLE
Turns on air pressure to pressurize the water tank, supplying water pressure to the syringe and handpieces. When turned off, tank pressure vents through the toggle allowing filling/refilling of the system.

WATER SYSTEM REGULATOR
Adjusts the water pressure from the tank. Turn clockwise to increase water pressure, and counterclockwise to decrease water pressure.

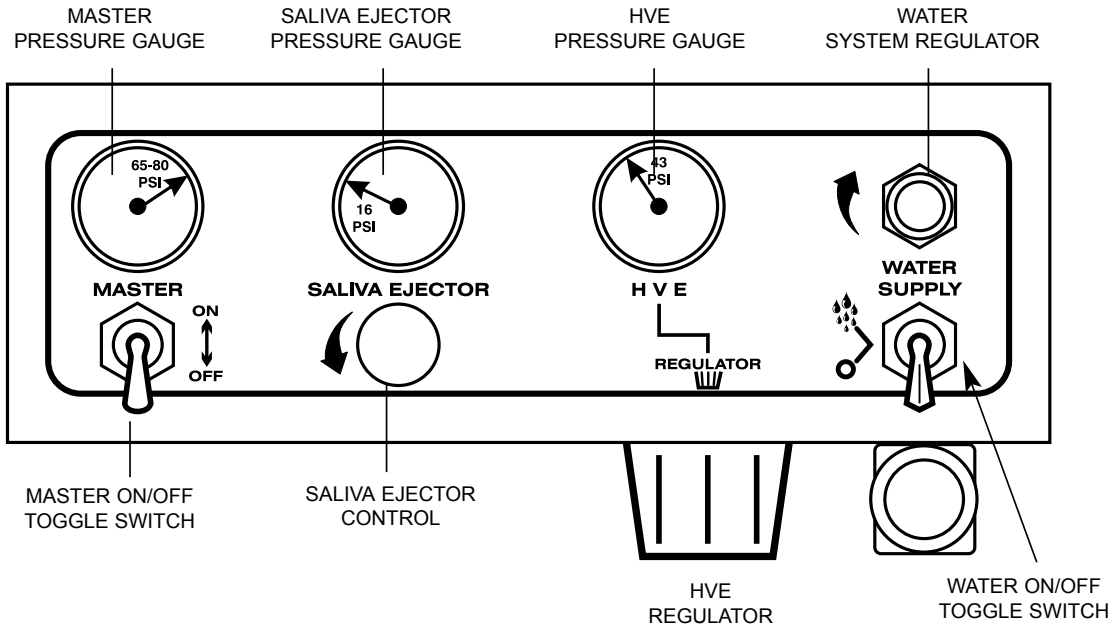


Figure 6
Vacuum and Water System Controls

FIBER OPTIC SYSTEM *Figure 7*

The ADU-10CF is equipped with a KaVo LCM Fiber Optic Handpiece Lighting System. It is designed to work with KaVo LCM Handpiece Tubings and KaVo Multiflex Couplers. The tubing will also except any standard ISO 4-hole non-fiber optic handpiece.

To use a KaVo Multiflex Fiber Optic handpiece with the ADU-10CF unit, screw the included Multiflex LUX 465 LRN Coupling to the highspeed handpiece tubing and tighten firmly. All KaVo LUX handpieces with original Multiflex couplings may be connected. Press the Multiflex handpiece straight onto the Multiflex LUX coupling and push until it clicks audibly into place.

Remove the fiber optic wall transformer from the storage pouch marked "Fiber Optic Transformer" and plug the low voltage connector end of the cable into the LCM control port marked "PWR". Plug the wall transformer into a grounded 120V outlet. The duplex outlet on the AA-75CF Compressor may be used to plug the transformer into.

The KaVo LCM Fiber Optic Handpiece Lighting System is now ready for operation. The fiber optic system will light automatically when the user depresses the foot control to operate the handpiece. The light intensity may be varied with the Remote Intensity Control knob mounted beneath the delivery head. Rotate the knob clockwise to increase light intensity and counter-clockwise to decrease the light intensity.

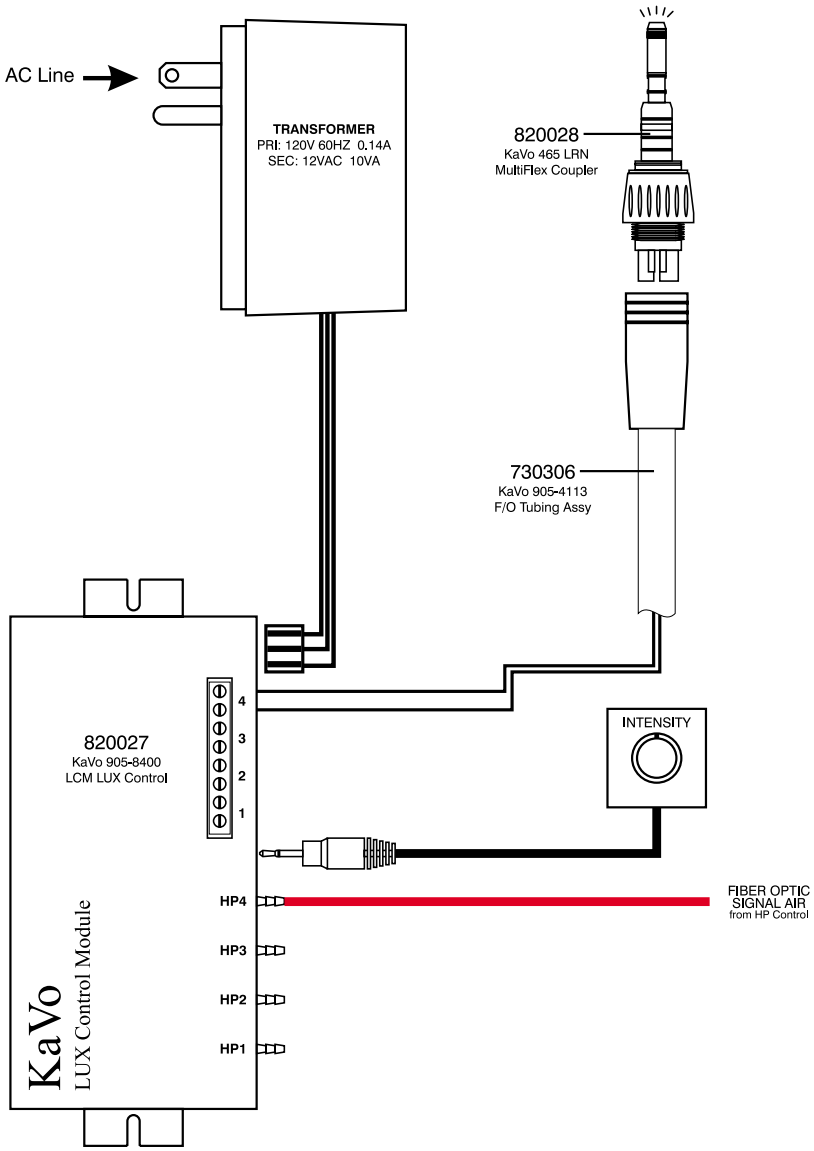


Figure 7
KaVo Fiber Optic System

Foot Control

The standard disc foot control varies the drive air pressure to the active handpiece, and provides an air signal that activates the air and water coolant flow. The foot control is operated by applying foot pressure to any part of the foot control cover. *Figure 8*

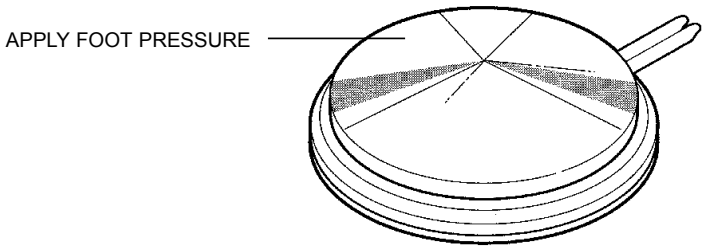


Figure 8 - Foot Control

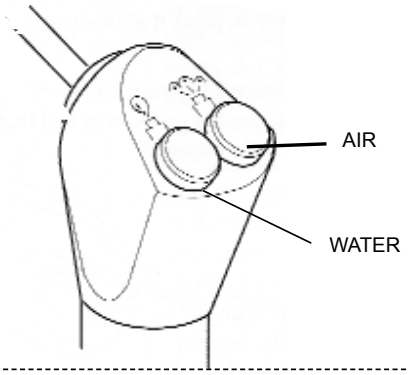
Syringe

The syringe on the ADU-10CF control gives precise finger-tip control of water, mist, or dry air for rinsing, cooling or drying of the preparation area. It is totally autoclavable up to 135°C/275°F, and features a patented quick-change tip system.

The syringe head is imprinted with symbols indicating the button functions. The button on the left is water, and the button on the right is air. Press both buttons simultaneously for a mist. *Figure 9*

To remove the syringe tip, press down on the large collar. When you feel a soft “click”, the tip may be pulled straight out. Hold the collar down and insert the new tip. Be sure to press it all the way in, then release the collar. *Figure 10*

The syringe is designed for quick, easy removal for cleaning and sterilization, and incorporates an internal shut-off valve that prevents leakage when the syringe is removed. To remove the syringe, grip the dark gray sleeve at the base of the handle, and turn it counterclockwise a quarter turn until it stops. Pull the syringe away from the Q.D. Cartridge. To install the syringe, slip the Q.D. Cartridge all the way into the syringe handle, then turn it clockwise a quarter turn until it stops. This will turn the air and water on, making the syringe operational. *Figure 11*



DEPRESS BOTH BUTTONS
SIMULTANEOUSLY FOR MIST.

Figure 9 - 3-Way Syringe

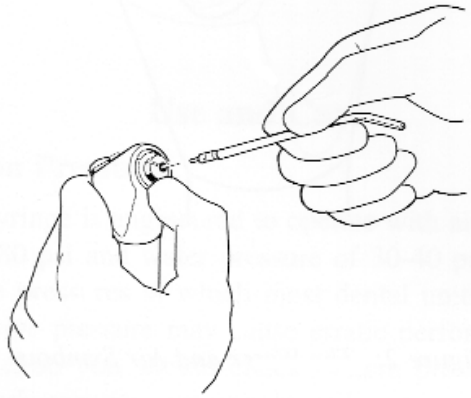


Figure 10
Syringe Tip Removal.

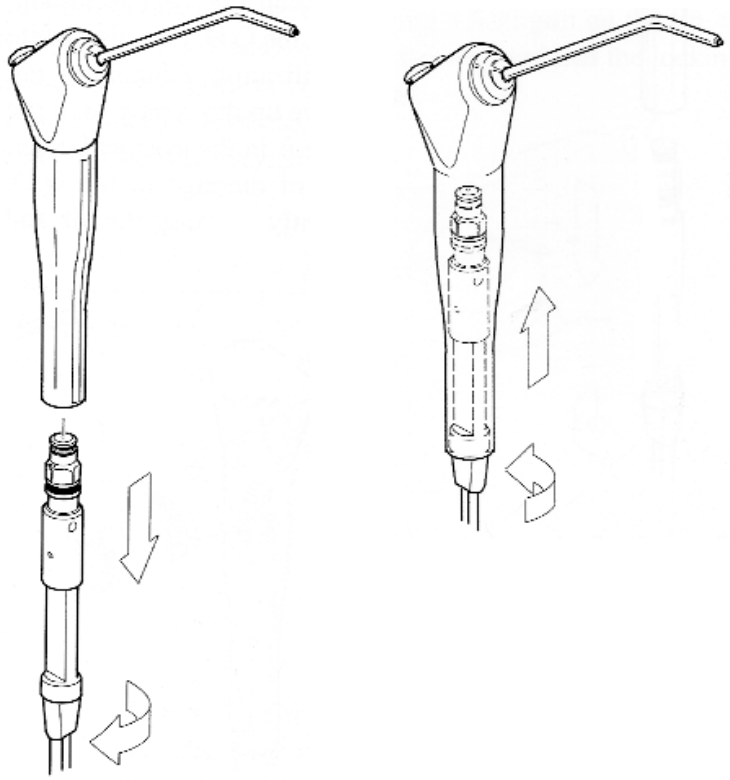


Figure 11
Syringe Removal & Installation.

IMPORTANT NOTE

The white sleeve around the syringe tubing is furnished to protect the Q.D. Cartridge while the syringe is away for sterilization. After removing the syringe, slide the sleeve up the tubing until the Q.D. Rests in it, then place it in the syringe holder. This minimizes the risk of damage to the Q.D. Cartridge or of inadvertently opening the air and water shut-off valve in the Q.D.

If the Q.D. Cartridge does not slip easily into the syringe handle, hanging up on the locking balls, it means that the shut-off valve has been rotated. Do not try to force the cartridge into the syringe. Remove Q.D. Cartridge and turn the hex-shaped portion counter-clockwise as far as it goes (a quarter turn) to close the valve and allow installation of the syringe. *Figure 12*

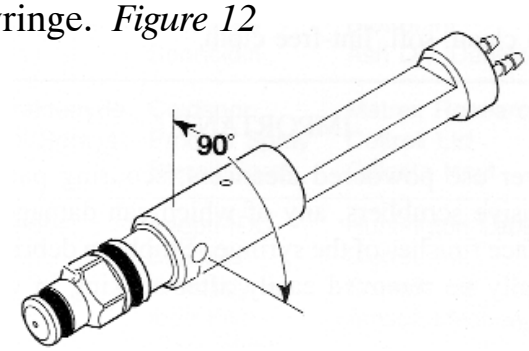


Figure 12
Syringe Quick Disconnect

This autoclavable syringe is specifically designed to be removed from the supply tubing for sterilization. In any situation involving high-risk patients, it is recommended that the syringe be removed for sterilization along with other instruments used. The quick-change syringe tips should always be replaced with sterile ones before each patient.

Procedures given here apply equally to the tips and the whole syringe. There are several methods of sterilization that may be used. It is important to remember, however, that regardless of the method you choose, temperatures should never exceed 280 degrees Fahrenheit (138 degrees Celsius). Any of the following sterilization methods may be used on your air/water syringe and/or syringe tips: * Steam Autoclave * Ethylene Oxide Gas * Chemical Vapor Process (see note).

Dry heat sterilization is not recommended because of the difficulty in maintaining the precise temperature control necessary to prevent damage to the syringe or syringe tips.

IMPORTANT

When using the chemical vapor process, it is essential to first rinse all cleaning agents from all surfaces with clear water. This is particularly critical for the syringe tip. The internal orifices of the syringe tip must be thoroughly purged of all residual cleaning agents by flushing with water then isopropyl alcohol. This will prevent clogging of the tips caused by reactions between the chemical vapor solutions and cleaning agents.

ROUTINE ADJUSTMENTS

Handpiece Drive Air Pressure Adjustment

The handpiece drive air pressure for the High & Low speed handpieces can be adjusted to meet handpiece manufacturer specifications. For most high speed handpieces, the maximum pressure is 32 PSI. You will need a small blade screwdriver.

1. Attach a handpiece to the proper hose on the unit, and install a bur in the handpiece.

2. Locate the handpiece drive air adjustment screws beneath the delivery head marked “Drive Air”. There is a separate control for each handpiece marked “Hi & Low”.

3. Depress the foot control to run the handpiece and observe the handpiece pressure gauge on the front of the delivery head.

4. Turn the drive air adjustment screw, with a small screwdriver, until the handpiece operates at the specified maximum pressure when the foot control is fully depressed. Turn the adjustment screw clockwise to decrease pressure, and counterclockwise to increase pressure.

WARNING

Do not turn the drive air adjustment screws counterclockwise beyond the point where the drive air pressure stops increasing.

It is possible for the adjustment screw to come completely out of the adjustment block.

Handpiece Air and Water Coolant Adjustment

1. Attach a handpiece to the proper hose on the unit, and install a bur in the handpiece.

2. Locate the handpiece air and water coolant adjustment knobs on the side of the delivery head marked “Water Hi-Low Air”, and the water coolant on/off toggle on the opposite side. There is a separate control for each handpiece marked “Hi & Low”.

3. Turn the water coolant toggle off.

4. While operating the handpiece at medium speed, adjust the air coolant for the desired flow. Turn the control knob clockwise to decrease flow, and counterclockwise to increase flow.

5. Turn the water coolant flow control knob fully clockwise until it seats gently. Then turn the water coolant toggle on.

6. While operating the handpiece at medium speed, turn the water coolant control knob counterclockwise until a fine mist is visible around the bur. A fine fog spray provides excellent cooling.

7. Repeat steps 1-6 for the other handpiece.

Syringe Air & Water Pressure Adjustment

The syringe air and water pressure can be adjusted for more or less flow during operation.You will need a small blade screwdriver.

1. Place a syringe tip in the syringe and remove the syringe from its holder.

2. Locate the syringe air and water adjustment screws beneath the delivery head marked “A & W”.

3. Depress the air or water button to run the syringe and observe the air and water flow out of the syringe tip.

4. Turn the air or water adjustment screw, with a small screwdriver, until the syringe operates at the desired flow when the button is fully depressed. Turn the adjustment screw clockwise to decrease pressure, and counterclockwise to increase pressure.

WARNING

Do not turn the air or water adjustment screws counterclockwise beyond the point where the pressure stops increasing. It is possible for the adjustment screw to come completely out of the adjustment block.

Vacuum Pressure Adjustment

The air pressure for the HVE and Saliva Ejector vacuums can be individually adjusted. Follow the settings below to obtain the most efficient operation of all unit functions simultaneously.

1. Remove the saliva ejector from its holder to start its operation. Move the lever valve to the on position.

2. Locate the saliva ejector pressure gauge and the saliva ejector control knob.

3. Turn the saliva ejector control knob until the saliva ejector pressure gauge operates at 16 PSI. Turn the saliva ejector control knob clockwise to decrease pressure, and counterclockwise to increase pressure.

4. Remove the HVE from its holder to start its operation. Move the lever valve to the on position.

5. Locate the HVE pressure gauge and the HVE regulator. Pull down on regulator knob to unlock.

6. Turn the HVE regulator until the HVE pressure gauge operates at 43 PSI. Turn the HVE regulator clockwise to increase pressure, and counterclockwise to decrease pressure.

Water Pressure Adjustment

1. Fill the stainless steel water supply canister with water and install on the quick disconnect.

2. Locate the water supply on/off toggle and the water supply regulator. Loosen the regulator lock nut to unlock.

3. Turn the water supply regulator ¼ turn at a time. Turn the regulator clockwise to increase pressure, and counterclockwise to decrease pressure. Tighten regulator lock nut to lock setting.

4. Depress syringe water button to observe increased or decreased water pressure setting.

ROUTINE MAINTENANCE

Cleaning

All external surfaces of the unit may be cleaned using a solution of liquid detergent and water. Abrasive cleansers and scrubbing pads will damage the finishes and should never be used. The entire unit should be thoroughly cleaned at least once a day.

Disinfecting

Any external surfaces of the unit that are contacted during use should be carefully wiped down with a disinfectant after every patient. At the beginning of each day, the entire unit should be wiped down with disinfectant.

The following disinfectants may be used on all external parts with no danger of damaging the surface finish of the unit:

- Hypochlorite solution, consisting of one part Clorox or Purex to ten parts water.
- Gluteraldehyde solutions, such as Cydex.
- Phenolic (products that use cresols and phenols), such as Lysol.
- Isopropyl alcohol.

Handpiece Tubing Flushing

The handpiece flush system allows you to quickly flush your handpieces, washing away contaminates which may have accumulated in the handpieces and tubing. You should flush the handpieces for about 5 seconds after every patient, and for about 20 seconds at the beginning of each day.

1. Gather the handpieces from the handpiece holders and hold them over a sink or some sort of basin. Orient each handpiece so that the spray is directed away from you and into the basin.
2. Locate the flush on/off toggle on the side of the delivery head. This is a momentary switch, so hold the toggle in the on position for about 5 seconds. This will flush water through each handpiece.
3. Replace the handpieces in their holders and resume normal operation.

Water System Filter Replacement

The water filter should be replaced when it becomes sufficiently plugged to impede the flow of water to the system. To replace a water system filter, turn the water system toggle off and allow the system to depressurize. Unscrew the water canister from the lid and locate the metal filter body on the end of the 1/4" blue water pick-up tube.

Remove the filter by sliding back the sleeve clamp on the tube and pulling the filter off the end. If the filter screen is clogged, you will need to replace the filter with a new one (Part No. 730326).

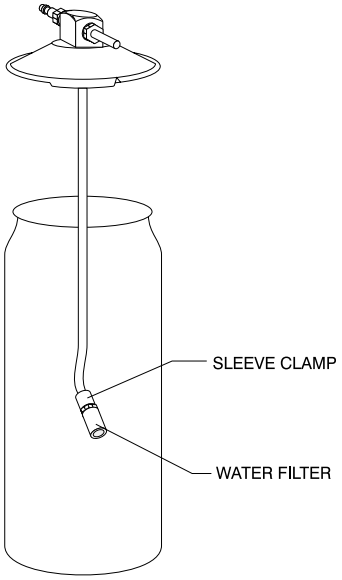


Figure 13
Water System

Draining Water Filter/Separator

The water filter/separator should be drained when it becomes visibly full through the sight glass. To drain water that has collected, turn the master system toggle off. Route the 1/4" grey drain tube outside the unit case, then unscrew drain fitting to release water. Allow all the water to drain, then re-tighten drain fitting.

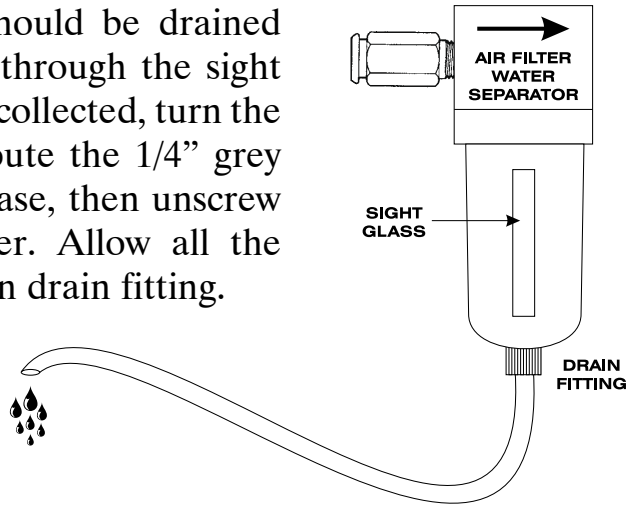


Figure 14
Air Filter Water Separator

HVE and Saliva Ejector Vacuum System Cleaning

The HVE and Saliva Ejector vacuum systems should be emptied and cleaned after each use, or when the waste container becomes visibly full. The vacuum waste bottles are each equipped with an automatic ball float shut-off, but it is preferable to empty each waste container when it becomes about 3/4 full. Firmly tighten waste container lids when replacing for best vacuum performance.

After each patient, the HVE and Saliva Ejector systems should be thoroughly rinsed by drawing clean, fresh water through each hose. Allow air to draw through the system for a few seconds to clear all water from the hoses. Remove the HVE and Saliva Ejector valves from the vacuum hose for cleaning and sterilization by pulling apart at the quick disconnect swivel connector. Each vacuum lever valve is autoclavable up to 325 degrees F. The vacuum system waste containers should be cleaned, scrubbed, and disinfected each time they are emptied. Vacuum system cleansers with disinfecting properties are available from dental suppliers. If using one of these cleaners, follow the manufacturers recommendations.

Solids Collector Cleaning

The HVE Solids Collector should be emptied and cleaned after each use, or when it becomes visibly full. To remove the solids collector screen for cleaning, first turn the system off. Remove the HVE waste container lid from the bottle and locate the solids collector screen attached to the vacuum input fitting. Pull the solids collector screen firmly off the barbed fitting and empty any solid waste material. Thoroughly scrub the solids collector screen in a detergent solution and rinse clean. The screen may be cleaned in an ultrasonic cleaner and should be disinfected. Replace the solids collector screen by pushing firmly onto the barbed fitting. Firmly tighten HVE waste container lid when replacing for best vacuum performance. *Figure 15*

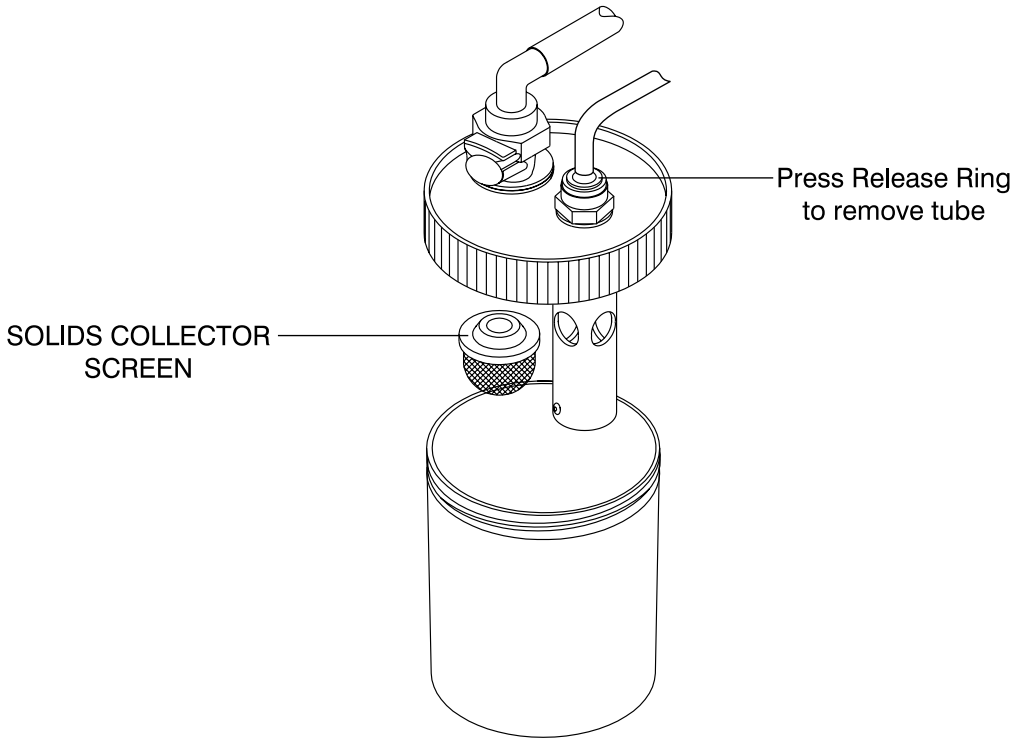


Figure 15
Solids Collector

Three-Way Syringe and Tip Sterilization

The three-way air/water syringe and the quick disconnect syringe tips should be sterilized before each use. The three-way syringe is autoclavable up to 275 degrees F. The quick change tips can be sterilized by means of steam autoclave, chemical vapor, dry heat, or ethylene oxide gas processes. Refer to the "Syringe" section on page 10 for details.

Packing and Purging for Storage or Transport

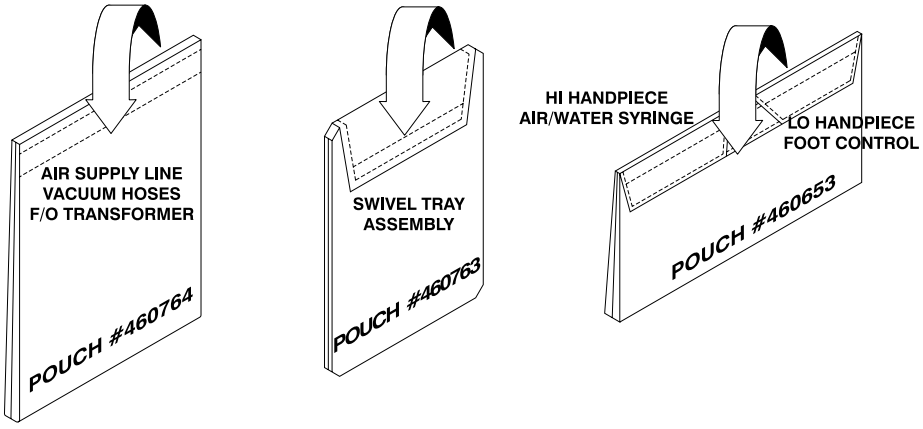
The ADU-10CF unit should be purged of water to guard against freezing damage, and then properly packed before storage or transport. To purge the ADU-10CF system of water, depressurize and remove the water system canister, then empty all contents. Replace the water canister and pressurize. Operate the three-way air/water syringe and both handpiece controls with the water coolant "On" until all water is cleared from the system and just air is dispensed. Remove water canister from quick dis-connect and lock into strap holder for storage.

After all water has been purged from the system, pack unit components into the proper storage pouch as follows:

1. Storage pouch #460764 is divided into two sections. Disconnect the two 10' sections of the air supply line from the unit, coil hose, and store in one side of the pouch. Disconnect the HVE hose and Saliva ejector hose from the waste bottles in the unit, coil hose, and store in the other side of the pouch. Remove the fiber optic transformer from the unit and store in the inside transformer pocket in the center wall of the pouch.

2. Storage pouch #460763 holds the Instrument tray and swivel arm assembly. Loosen thumbscrew on swivel arm and remove arm from tray. Place swivel arm inside tray and slide into pouch. Store pouch underneath the vacuum bottle holder tray.

3. Storage pouch #460653 holds the foot control, handpiece tubing, and air/water syringe. Coil the foot control and lowspeed handpiece tubing and store in the right side of the pouch. Coil the high-speed handpiece tubing and air/water syringe tubing and store in the left side of the pouch.



Daily Functional Checklist:

To verify that the ADU-10CF unit is functioning properly, connect the unit to a clean compressed air source providing 60-80 PSI:

1. Switch the master On/Off toggle to the on position. The master pressure gauge and "On" indicator should indicate pressure.

2. When the water system is attached and turned on, water canister should pressurize.

3. Depress foot control and observe drive air pressure from the high-speed line, and lowspeed line when selected.

4. Depress the air/water buttons on the three-way syringe. Syringe should spray both air and water.

5. With vacuum waste containers attached to the system, lift the HVE and Saliva Ejector valve from their auto holders with lock out switch in the on position. Vacuum should switch on, and vacuum generated at each valve.

While system is pressurized, inspect the unit for air or water leaks that could degrade or eliminate performance. Air filter/water separator drain should be closed, and air filter element inspected. Element should be replaced when pressure drop across the unit exceeds 10psi differential pressure. Water canister should be holding pressure at the lid, and the lid gasket inspected. Gasket may require lubrication or replacement for a proper seal. Inspect the water filter on the water pick-up tube. Water filter requires replacement if it becomes clogged and restricts water flow. Vacuum waste container lids should be sealed and holding a vacuum when in operation. HVE solids collector screen should be inspected for blockage and cleaned or replaced if necessary.

The above describes a basic inspection & verification of the ADU-10CF system. If the unit still does not perform as required, further diagnosis of settings and components in the system may require service.

ADU-10CF SPECIFICATIONS

Standard Features:	One Autoclavable Three-Way Syringe Two Manual ISO 4-hole Handpiece Controls One Low Volume Evacuator One High Volume Evacuator Variable Speed Disc Foot Control Self Contained Water System One Fiber Optic Handpiece Lighting System Stainless Steel Instrument Tray (13.5”x9.75”)
Weight:	39 Lbs.
Dimensions:	17.5”w x 16”d x 17”h
Volume:	2.76 cubic ft.
Electrical:	120v 50/60Hz. (Fiber Optic System)
Fiber Optic Bulb:	3.3 VDC Max. 2.5 watt 40,000 LUX

Reservoir Capacities:

Water System- 828ml. (28oz.)
HVE Waste- 800ml. (27.0 fl. oz.)
Saliva Ejector Waste- 475ml. (16.1 fl. oz.)

Vacuum Performance:

High Volume-	2.0 SCFM @ 4.0 Hg. Simultaneous Operation
	2.3 SCFM @ 5.1 Hg. Max.
Low Volume	0.1 SCFM @ 3.0 Hg. Simultaneous Operation
	0.4 SCFM @ 2.4 Hg. Max.

Handpiece Performance:

0-32 PSI Simultaneous Operation
0-50 PSI Max.

Operating Temperature:

2° C to 49° C (35° F to 120° F)

For Further Service And/Or Technical Assistance Contact:

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